

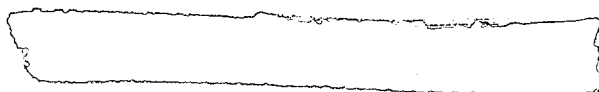


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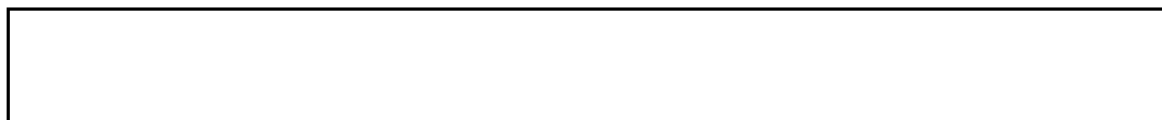
PHOTOGRAPHIC INTELLIGENCE REPORT



K'AI-FENG NITROGEN FERTILIZER PLANT

K'AI-FENG, CHINA

Declass Review by NIMA/DOD



25X

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CIA/FIR 65107

DATE APR. 1966

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GROUP 1
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FIGURE 1



PREPARED BY - CHEMICAL AND SCIENTIFIC SECTION
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K'AI-FENG NITROGEN FERTILIZER PLANT
K'AI-FENG, CHINA

The K'ai-feng Nitrogen Fertilizer Plant is located at 34 47N - 114 23E, approximately 1.5 nm east of the center of K'ai-feng in Honan Province, China (Figures 1 and 2). It is road and rail served and covers an area of approximately 5,700,000 square feet.

Using coal and pyrite as raw materials, synthetic ammonia, sulfuric acid, and ammonium sulfate are produced at this plant. The specific facilities necessary to accomplish this have been identified by number on Figure 6:

- (1) Boilerhouse
- (2) Retort building
- (3) Two gasholders
- (4) Ammonia synthesis building
- (5) Sulfuric acid plant
- (6) Sulfuric acid storage tanks
- (7) Ammonium sulfate production section
- (8) Area of expansion
- (9) Water treatment area
- (10) Abandoned construction site
- (11) Coal storage and handling area
- (12) Conveyor
- (13) Shops, storage/temporary construction buildings, and open material storage
- (14) Administrative and warehousing facilities
- (15) Open material storage (probably coal and pyrite)

All available photographic coverage during the period [] was examined in order to follow the construction of this plant (Figures 3 through 6). The following significant changes and activity, by mission, were noted:

- X1
- (1) Externally, most of the production facilities appeared in a late stage of construction in [] (Figure 3). The sulfuric acid plant was essentially complete although rail service did not extend into this area. One of the gasholders and many of the pipelines between the various facilities were under construction. Approximately 20 tank

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cars and 7 gondola/hopper cars were noted within the plant area.

X1 (2) [] A number of changes were noted from photography of [] Figure 4). Modification of the boilerhouse was underway; the roof had been removed and a new one was under construction. Two conveyors had been constructed. One of these is on the south side of the boilerhouse, the other is indicated by Annotation 12, Figure 6. The gasholder previously under construction was complete. Construction of coal storage and handling facilities (Annotation 11, Figure 6) was in progress. Rail service still did not extend into the sulfuric acid and ammonium sulfate production areas. Seven gondola/hopper cars were observed within the plant area and at least 40 gondola/hopper cars were near the open material storage area. 25X

X1 (3) [] all production facilities appeared complete and probably in operation (Figure 5). Open coal storage near the boilerhouse was noted. Rail service extended into the ammonium sulfate production area and into an area of new construction (Annotation 8, Figure 6).

X1 (4) Several unidentified buildings were constructed in this new area between [] Annotation 8, Figure 6).

X1 (5) Fluctuations in the amount of open material storage were noted in comparing the various missions. For example, increases in the amount of coal stored in the area indicated by Annotation 15, Figure 6, were observed in [] A decrease was apparent [] These changes are probably indicative of some level of production. X1

X1

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REFERENCES

MAPS AND CHARTS

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REQUIREMENT

C-RR5-83,036

CIA/IAD PROJECT

30432-6

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FIGURE 3

K'AI-FENG NITROGEN FERTILIZER PLANT

K'ai-feng, China

34 47N - 114 23E

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FIGURE 4

K'AI-FENG NITROGEN FERTILIZER PLANT
K'ai-feng, China
34 47N - 114 23E

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FIGURE 5

K'AI-FENG NITROGEN FERTILIZER PLANT
K'ai-feng, China
34 47N - 114 23E

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FIGURE 6

K'AI-FENG NITROGEN FERTILIZER PLANT
K'ai-feng, China
34 47N - 114 23E

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